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ADDENDUM NO. 2

Date: September 17, 2007

Landfill Construction
Class I Phase III Landfill – MSW Cell 1and Ash Monofill Cell 1
for the Lake County Landfill Located in Tavares
BID No.: 07-0005

This addendum is being issued to make the following changes, corrections, clarifications and additions to the bidding document in response to questions raised at the mandatory pre-bid conference held on September 10, 2007 and other questions submitted to the Lake County Procurement Office. Respondents shall acknowledge receipt of this addendum in the appropriate space on their bid response. Failure to acknowledge this addendum may preclude consideration of the bid proposal award.

1. **Change:** The Bid Opening date has been postponed from September 26, 2007, 3:00 p.m. to **October 3, 2007, 3:00 p.m**

2. All questions regarding the bids and associated documents must be directed to Susan Dugan at the Lake County Procurement Office. Questions must be received by the end of business on Tuesday, September 25, 2007.

3. A copy of the sign in sheet from the mandatory pre-bid conference held on Monday, September 10, 2007, is included with this addendum.

4. The Aerial Photograph (May 2004) of the site is available at ftp.brwncald.com (Logon ID = "bc", Password = "bcftp") in a folder entitled Lake County Phase III Landfill

5. The Geotechnical Report prepared by Ardaman & Associates, Inc. for the project is also available at ftp.brwncald.com in the Lake County Phase III Landfill folder.

6. The Contractor shall accomplish Substantial Completion, as defined in the Bid Document, on or before 315 days from the Notice to Proceed from the County. Final Completion shall be accomplished within 45 days following Substantial Completion.

7. Bidders shall include an allowance for paying local permit and impact fees associated

with the construction activities. Such fees shall be listed individually on the Schedule of Values by the Contractor and the County will provide a direct reimbursement to the Contractor for these fees. See Section 2.14 of the Bid Document (Permit and Impact Fees) for further explanation.

8. The topography shown in the design plans is from May 2004. The areas associated with the proposed project have not changed since the time of the aerial survey. Additionally, the elevations shown on the existing conditions plan in the area of the retention pond reflect ground elevations; there was no water in the pond at the time of the aerial survey. Prospective bidders are invited to visit the site to verify field conditions, as necessary. Requests to visit the site must be coordinated through Susan Dugan at the Lake County Procurement Office.

9. Soils used in the Drainage/Protection Layer over the Primary Geomembrane are specified as Type F in Specification 02200. These soils have been available on-site during past landfill cell construction projects. It is anticipated that an adequate quantity of soils meeting the requirements for this layer can be found on-site in designated excavation and borrow areas. Please refer to the Geotechnical Report, available on Brown and Caldwell's FTP Site, for additional information on the on-site soils and geology.

10. In the event that there is a shortfall of soil material during construction (excavation, grading, and the drainage/protection layer), the Contractor will be allowed to use on-site soils to the north of the existing stormwater retention pond north of the proposed MSW Cell (see Figure 1). The Contractor will need to prepare a borrow source excavation plan for approval by the Owner and/or Engineer prior to using soils from this area.

11. The location for the Contractor's trailer is shown on the site plan included with this addendum (Figure 1). It is intended that the Contractor provide a work space (field office) in the construction trailer for the Construction Manager/CQA Consultant/Engineer. The area required for the field office is described in Specification Section 01590. The conference area specified can be a common area for both the Contractor and the CQA personnel.

12. Contractor shall maintain his work separate from the County Landfill Operations. At the office trailer, the Contractor shall maintain facilities and parking for construction personnel separate from the County Landfill Operations.

13. There is a Lake County non-potable well available for use by the Contractor adjacent to the area reserved for the trailer. However, there may not be enough water available on a regular basis from this well for some construction activities. A City of Tavares fire hydrant connection is also available adjacent to the proposed trailer area. If the Contractor wishes to use this connection, it will be his responsibility to contact the City of Tavares to meter the hydrant. The Contractor will also be responsible for payments to the City of Tavares for use of water from this connection.

14. Soils excavated from the site can be stockpiled on-site in the general area designated on the site plan included with this addendum (Figure 1) until they are used in the project. However, siltation controls specific to the stockpiles, such as silt fencing or hay bales around the base, shall be utilized to prevent erosion into existing stormwater swales and ponds.

15. Any soils excavated from the site, including those from the retention pond areas, that are not acceptable for the subgrade, subbase or drainage/protection layer in the landfill cells, can be utilized in the construction of the berm along the western property boundary. Such materials should be segregated from the other soils that are to be used for landfill cell construction. It is not anticipated that materials will be excavated from the pond area beneath the MSW Cell, however, since the design indicates that fill will be necessary in this area to reach the required grades for the MSW Cell.

16. The Contractor will be allowed to build temporary containment for dewatering, if necessary. Any plan for building such containment shall be reviewed and approved by the Owner and Engineer prior to starting the construction.

17. No source for the low-permeability soil specified for the subbase in the Ash Cell has been specified. It is the Contractor's responsibility to find suitable soil satisfying the specified requirements. The low-permeability soil shall not contain any admixture materials that would be incompatible with the leachate produced in the Ash Cell (such as bentonite).

18. 60-mil textured geomembrane shall be used throughout the site where geomembrane is required. Textured geomembrane manufactured using the extrusion calendaring process that meets the requirements of the Specifications, is acceptable for this project. Spray-on texturing or texturing that is applied by lamination as a secondary process is not acceptable.

19. Reinforced GCL shall be used on the side slopes and sub-cell separation berms in the MSW Cell. No products or materials containing bentonite shall be used in the Ash Cell.

20. Deflection testing of the installed pipes is required in Section 3.03 in Specification 01565. One of the allowable testing procedures utilizes a "pull-through" device (Mandrel testing). Any beads produced during butt fusion welding of HDPE pipe will need to be removed prior to mandrel testing.

    Installed pipelines must also be pressure tested in accordance with the Specification indicated above. The pipelines from the MSW Cell to the leachate storage tank can be tested in segments due to the long lengths of pipe involved. Contractors shall submit a pressure testing plan to the Owner and Engineer for review and approval prior to testing these pipes. All other solid pipes requiring pressure testing are short enough to be tested in one segment, particularly those connecting the Ash Cell with the existing Phase II leachate collection system. These pipes must be tested in one segment to avoid the use of galvanized fittings that could be subject to corrosion from the ash leachate.

21. It is the Contractor's responsibility to dispose of land clearing debris. Open burning will not be allowed on-site.

22. The Contractor is responsible for the installation of pedestal, drainage pipes, and anchor bolts for only the one proposed leachate storage tank. No pedestal, drainage pipes or anchor bolts are required for the future tank as part of this project.

23. Although not shown on the plans, 2-inch isolation (gate) valves shall be installed on

the outlet of each pump riser discharge line to prevent the possibility of backflow if the pump in question needs to be removed for maintenance. The valves are specified in Section 15101 of the Specifications. A total of ten (10) such valves are required, five (5) on the primary leachate riser lines and five (5) on the secondary leachate riser lines. The locations of these valves on each pump riser discharge line are shown on the attached drawing (Figure 2).

24. A question was raised about the positioning of the 8-inch leachate collection/riser pipe as it passes above the leachate sump and then continues up the side slope of the cell. The intent of the design of both the MSW and Ash Cells is that the 8-inch perforated leachate collection pipes will run down the center of each subcell, passing over the approximate center of the leachate sumps, about 6 feet away from the primary leachate pump riser pipe and about 18 feet away from the secondary leachate pump riser pipe as shown in Section 2 on Sheet 000-C-003.

    Please note that the 8-inch leachate collection/riser pipe is not shown in the correct location in Section 1 of this sheet. The correct location would be in the center of the sump, approximately 6 feet to the side of the primary leachate pump riser pipe. Additionally, the location of 8-inch leachate collection/riser pipe relative to the primary leachate pump riser pipe is also not shown correctly on Sheet 100-C-003. The primary leachate pump riser pipe should be shown on the other side of the 8-inch leachate collection/riser pipe.

25. The primary leachate force main shown on Detail B on Sheet 000-C-004 of the plans should be 4" diameter, not 6" diameter. This pipe is correctly indicated on Sheet 200-C-004.

26. The two existing 60" diameter RCP pipes in the southeast corner of the existing stormwater retention pond must be shortened, as indicated on Sheet 100-C-001. Once shortened, a new multi-pipe mitered end section (FDOT Index No. 272) shall be installed on the end of the pipes.

27. The gas probes shown in the Design Plans on Sheet 100-C-002 and detailed on Sheet 000-C-005 are part of this project, and shall be installed to the depth of the groundwater, as shown on Sheet 000-G-004. Depths are shown in the table below.

Phase III – MSW Cell Gas Monitoring Probes	
Probe Name	Depth
A3GP001	12'
A3GP002	12'
A3GP003	17'
A3GP004	27'
A3GP005	31'

28. Drawings Sheets 100-C-005 and 200-C-006 depict build-out grades for the cells and are for reference only. Similarly, the build-out grades shown on Sheets 100-C-006 and 200-C-007 are also for reference only. No future work is required from the Contractor to reach these build-out grades.

29. Details A and B on Sheet 000-C-002 correctly show the construction of the perimeter berm with a 6" layer of limerock on top. Some of the other details in the plans show

the perimeter berms around the cells without the limerock layer. These other details only show the berm as a reference point and do not identify the soil layers on the berm. The perimeter berm to be built between the MSW and Ash cells, as shown on Sheet 300-C-001, also requires the 6" layer of limerock on top.

30. The structural fill in the anchor trench indicated on Detail A, Sheet 000-C-002 is Type B material, as described in Specification 02200. On-site soils should meet the requirements for this material, but this must be verified by the Contractor prior to use. Please refer to the Geotechnical Report by Ardaman and Associates, Inc. for additional information regarding on-site soils.

31. Interface friction angle testing is the responsibility of the Contractor to verify that the materials to be used for this project meet the design requirements set forth in the plans and specifications. No interface friction angle testing was performed as part of the design. It is likely that more than one manufacturer's materials will be able to meet the interface friction angle requirements. This allows the Contractor the freedom to find alternative materials that meet the performance requirements of the project at the lowest possible cost. However, it is still the Contractor's responsibility to have the actual materials to be used tested in the laboratory to document compliance with the interface friction angle requirements contained in the specifications.

32. The CQA Plan for the project calls for on-site sampling of geosynthetic materials for conformance testing purposes. A question was raised as to whether or not in-plant sampling and testing prior to shipment would be acceptable as an alternate. Generally, in-plant sampling and testing prior to shipment is acceptable as an alternate. However, the Contractor will be responsible for the cost of travel for the representatives of the CQA Consultant and/or Independent Testing Laboratory to perform the in-plant sampling and to ship the samples to the laboratory for testing.

33. It is the intent of Specification Section 02777 Part 1.05.A that the Contractor be responsible for documenting compliance with all sampling and testing requirements of Chapter 62-701.400(3)(d) and (e) F.A.C. Every attempt has been made to include all of these requirements in the specifications for this project. No additional requirements are anticipated.

34. Specification Section 02777 requires that the geomembrane liner must be protected with an outer covering around the rolls during delivery and storage. Based on input from geomembrane manufacturers, this requirement is waived.

35. Equipment referred to in Specification Section 11010, Part 1.02.A shall be UL-508A. Control devices shall be listed by a Nationally Recognized Testing Laboratory (NRTL) for their intended purpose where such listing has been applied to similar products.

36. Specification Section 16000 Part 1.04 states that the Contractor will submit drawings on Mylar drafting film. AutoCAD drawings are acceptable.

37. Specification Section 16000 Part 2.03 calls for solid brass markers. Conduit raceways can alternatively be marked with stenciled or heat shrink markers.

38. Specification Section 16110 Part 2.02 Table A lists alternative Electrical Enclosure

Materials and NEMA ratings for certain locations. For this project, the NEMA-4X standard is the minimum standard requirement for all applicable equipment.

39. Specification Section 16110 Part 2.03 D Table B ends with two finishes for raceway supports without a specified location for use. All outdoor locations are to be Stainless Steel.

40. There are no firestops, as described in Specification Section 16110 Part 2.06, included in this project.

41. In Specification Section 16110 Part 3.07, the raceway identification XFSC is PVC coated (outdoors) as directed by Crouse-Hinds type electrical conduit.

42. Specification Section 16140 Part 2.01 specifies that normal use devices shall be brown. Alternate colors will be acceptable, upon review and approval of the Owner and Engineer.

43. Solid-state overload relays, as described in Specification Section 16175 Part 2.03 B, are not used in this project.

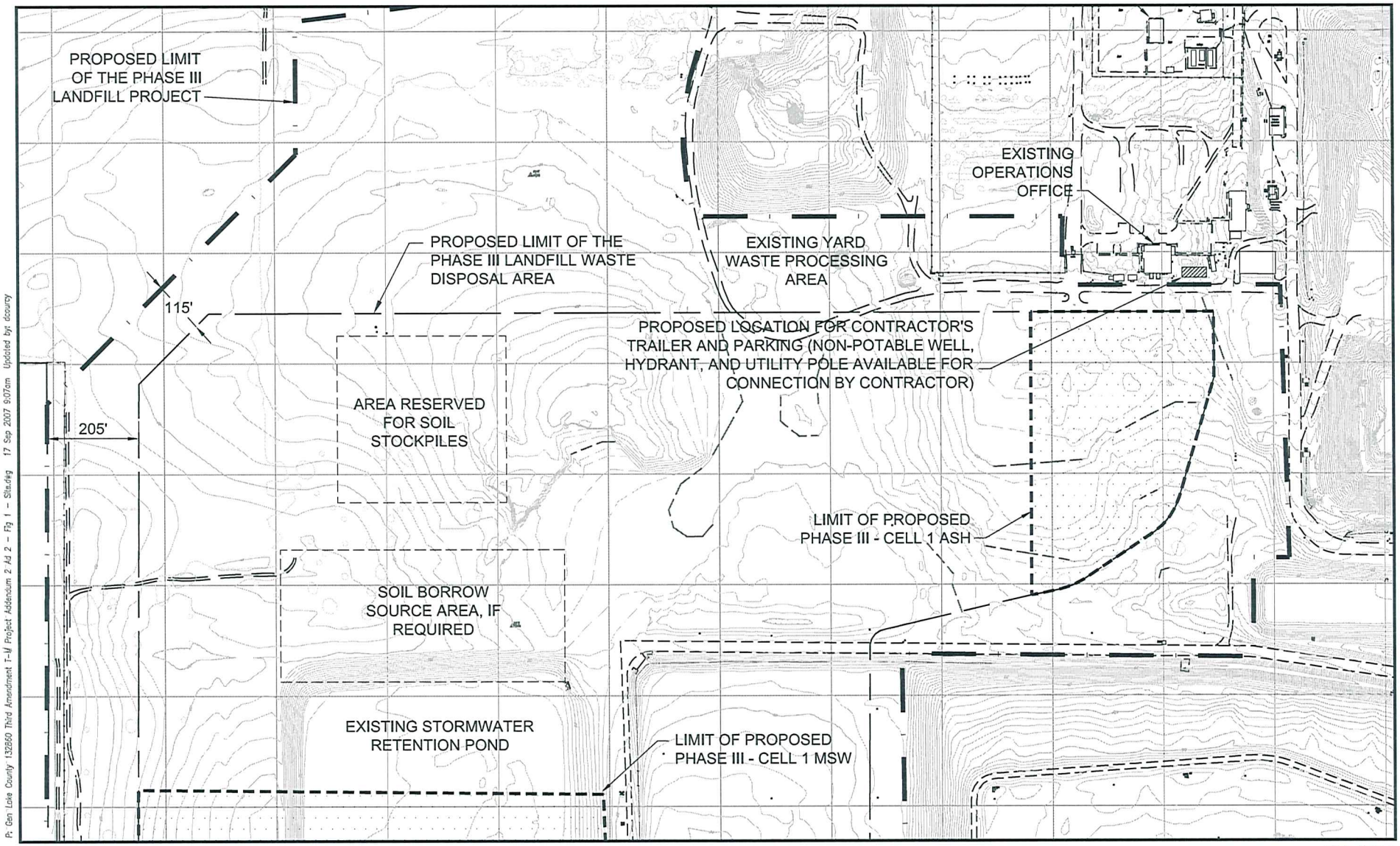
44. Specification Section 16176 Part 1.02 specifies UL 508A requirements. Panels do not require intrinsically safe components. All devices will be rated per the diagram on Sheet 000-E-003.

45. Specification Section 16176 Part 2.03 specifies forced air ventilation and air-conditioning where indicated. All control panels shall be forced air ventilated. This specification also requires space heaters for all outdoor cabinets. All outdoor panels require space heaters.

46. Specification 16176 Part 2.13 Panel Schedule footnote 3 states that hardwire control logic is required for the leachate pumps in the MSW and Ash Cells. PLC type controls are not required for these applications and should not be used.

For question regarding this addendum please contact Susan Dugan, Procurement Services, at (352) 343-9768 or via e-mail at sdugan@lakecountyfl.gov.

An additional Addendum #3 will be prepared to answer other questions the County has received within the last few days.



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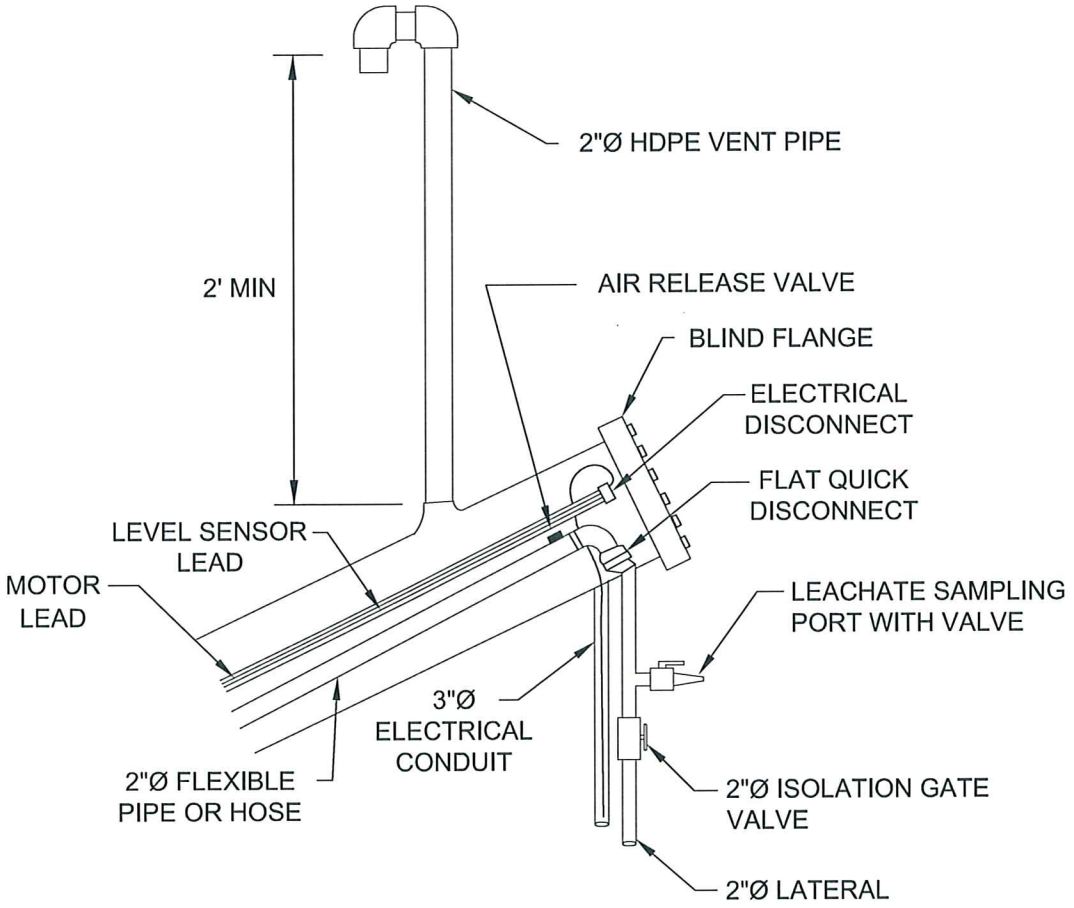
BROWN AND CALDWELL

FIGURE 1
ADDENDUM 2
LAKE COUNTY PHASE III - CELL 1 LANDFILL



TYPICAL SIDE SLOPE RISER PIPE TERMINATION

DETAIL D / VAR

SCALE: NONE

NOTES:

1. THIS DETAIL REPLACES THE REFERENCED DETAIL ON SHEET 000-C-004 OF THE DESIGN DRAWINGS.

2. THE GATE VALVE IS FURTHER DESCRIBED IN SPECIFICATION SECTION 15101.

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BROWN AND CALDWELL

FIGURE 2
ADDENDUM 2
LAKE COUNTY PHASE III - CELL 1 LANDFILL

Lake County Procurement Services
Sign In Sheet

LAKE COUNTY
BOARD OF COUNTY COMMISSIONERS

Project Title: Landfill Construction

Project Number: 07-0005

Purpose of Meeting: Pre-Bid Conference

Date: September 10, 2007, 10:00 a.m.

NAME	COMPANY NAME	ADDRESS	PHONE/FAX	E-MAIL
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Vaden Pollard	ERC	890 Carter Rd. Winter Garden Fl	407-656-3900	
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Steve Johnson	WRS	221 Hobbs St, Tampa FL 33619	813/684-4400 813/684-9177	sjohnson@wrsie.com
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Lake County Procurement Services
Sign In Sheet

LAKE COUNTY
BOARD OF COUNTY COMMISSIONERS

Project Title: Landfill Construction

Project Number: 07-0005

Purpose of Meeting: Pre-Bid Conference

Date: September 10, 2007, 10:00 a.m.

NAME	COMPANY NAME	ADDRESS	PHONE/FAX	E-MAIL
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Lake County Procurement Services
Sign In Sheet

LAKE COUNTY
BOARD OF COUNTY COMMISSIONERS

Project Title: Landfill Construction

Project Number: 07-0005

Purpose of Meeting: Pre-bid Conference

Date: September 10, 2007, 10:00 a.m.

NAME	COMPANY NAME	ADDRESS	PHONE/FAX	E-MAIL
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Glenn Oakes	James Construction Group	"	"	" (same)
Doug Dempsey	Pospiech Contracting Inc	201 S. Apopka Ave Inverness Fl 34452		dougdempsey@tampabay.rr.com
~~Steve Harty~~	~~Harty Tractor~~	~~9245 Rhode Island~~	352-726-3940 352-726-5250	813-927-3182